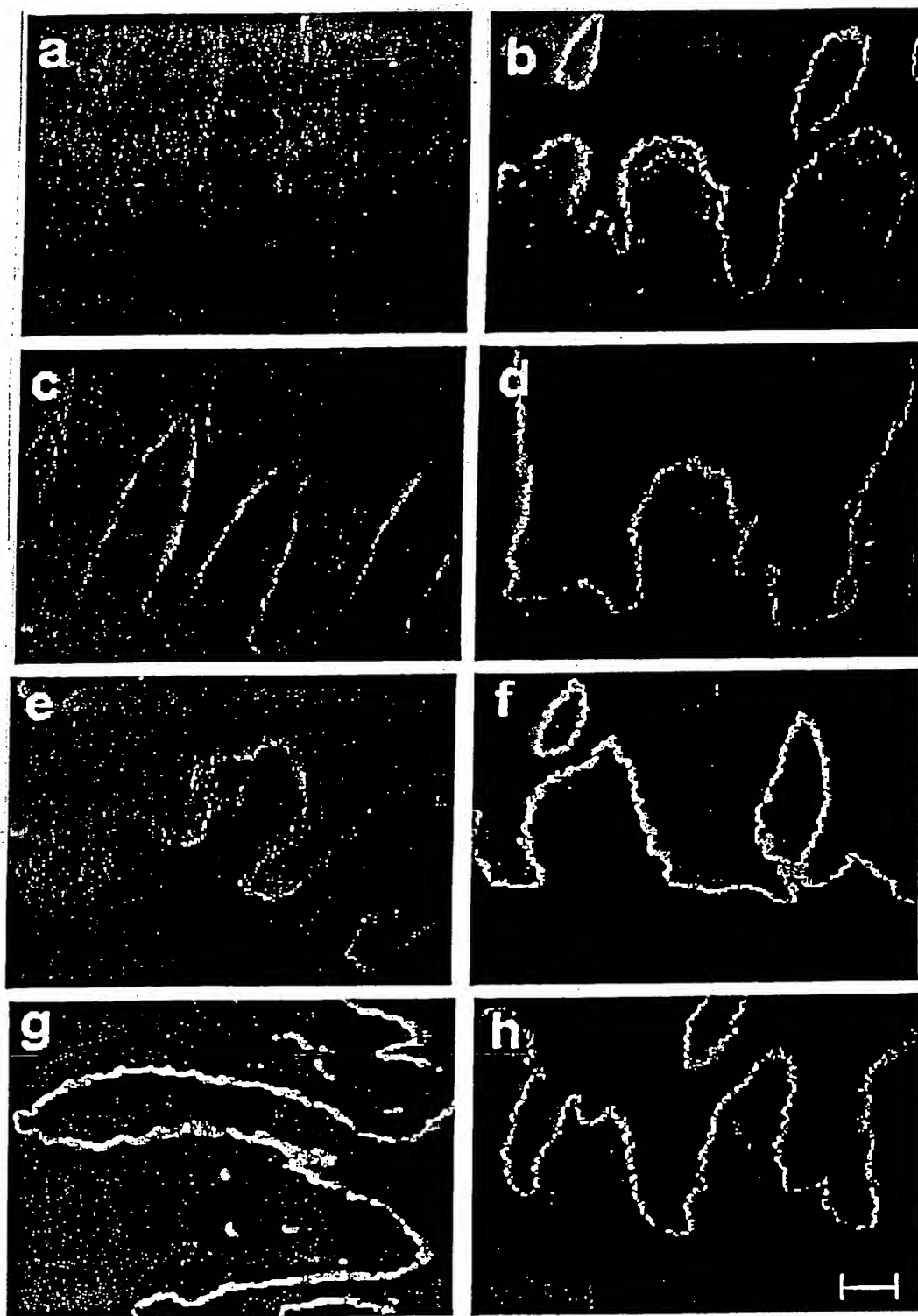
**FIG. 1**

**FIG. 2**

5' TGGGTCTCCTTATTACAGG -177

TGAGTCACACCTGAAACACAGGCTCTCTTCTGTGAGGACTGAGTCAGGTAGAGAGTCGATAAAACCTGATCAAGGAAAAG -91

GAAGGCACAGCGGAGCGCAGAGTGAAGTCCCAGCGCGGAGGCGCGGGCAGCGACCCCTGCAGCGCGGACCGCGCGCGCTGGCC -1

ATGCCTGCGCTCTGGCTGAGCTGCTACCTCTGCTTCTCGTCTCTCTGCGCCGAGCGCGGGCCACCTCCGGGAGGGAAGTCTGTGATTGC 90

M P A L W L S C Y L C F S L L L P A A A R A T S G R | E V C D C 30

AACGGGAAGTCCAGGCAATGCATCTTTGACCAGGAATTCACAAACAGACAGGAAATGGATTCCGCTGCCTCAACTGCAATGACAACT 180

N G K S R Q C I F D Q E L H K Q T G N G F R C L N C N D N T 60

GATGGCATCCACTGCGAGAGGTGCAAGGCAGGATTTTACCGACAGAGAGAAAGGACCGCTGTTTACCTGCAATTGTAACCTCTAAAGGT 270

D G I H C E R C K A G F Y R Q R E R D R C L P C N C N S K G 90

TCTCTTAGCGCTCGATGTGACAACTCTGGACGGTGCAGCTGTAAAGCCAGGTGTGACAGGAGACAGGTGTGACCGATGTCTGCCCGCTTC 360

S L S A R C D N S G R C S C K P G V T G D R C D R C L P G F 120

CACACTCACTGATGCTGGGTGCGCCCAAGACCAAAGGCTGCTAGACTCCAAGTGTGACTGTGACCCAGCTGGCATCTCAGGGCCCTGT 450

H T L T D A G C A Q D Q R L L D S K C D C D P A G I S G P C 150

GACTCAGGCGCTGTGTCTGCAAGCGCGCTGTCTGAGAGCGCTGTGATAGGTGTGACACAGGTACTATCACTGGATGGGGGAAAC 540

D S G R C V C K P A V T G E R C D R C R P G Y Y H L D G G N 180

CCTCAGGCGTGTACCCAGTGTCTTTGCTATGGGCATTCCGCGAGCTGCCACAGCTCTGGGGACTACAGTGTCCATAAAATCATCTCTGCC 630

P Q G C T Q C F C Y G H S A | S C H S S G D Y S V H K I I S A 210

TTCCATCAAGATGTTGATGGCTGGAAGGCTGTCCAAGAAACGGGTCTCTCTGCAAAGCTCCAGTGGTACAGCGCCATCGGGATATATT 720

F H Q D V D G W K A V Q R N G S P A K L Q W S Q R H R D I F 240

AGCTCAGCAGCATGATCAGACCTGTCTATTTTGTAGCTCTGCGCAAATTTCTTGGGAATCAACAGGTGAGCTACGGGCAAAGCCTATCT 810

S S A R R S D P V Y F V A P A K F L G N Q Q V S Y G Q S L S 270

TTTGACTACCGTGTGGATAGGGGAGGCAGACCCCATCTGCCCATGACGTGATCCTGGAAGGTGCTGGTCTACGGATCACAGCTCCCTTG 900

F D Y R V D R G G R H P S A H D V I L E G A G L R I T A P L 300

ATGCCACTTAGCAAGACTGCCTTGTGGGATCACCAAGACTTACACATTGAGTTAAATGAACATCCAAGCAGTAATTGGAGCCCCCAG 990

M P L S K T L P C G I T K T Y T F R L N - E H P S S N W S P Q 330

CTAAGTTACTTTGAGTATCGGAGGTACTCGGGAACCTCACAGCCCTGCGGATCCGAGTACCTACGGAGAATACAGTACTGGGTACATT 1080

L S Y F E Y R R L L R N L T A L R I R A T Y G E Y S T G Y I 360

GACAACTGACCTTGATTTCAGCCCCCGCTTTCTGGAGCCCCAGCGCCCTGGGTGAAATGTGTATGCCCTGTGGCTACAAGGGG 1170

D N V T L I S A R P V S G A P A P W V E Q C V C P V G Y K G 390

CAGTTCTGCCAGGATTGTGCTTCCGGCTACAAAAGAGATTGAGCCAGTGGGACCTTTGGCACCTGTATTCCATGTAAGTCCAAAGG 1260

Q F C Q D C A S G Y K R D S A R L G P F G T C I P C N C Q G 420

GGAGGGGCTCGATCCAGACAGGAGACTGTACTCAGGGGATGAGAACCCTGACATCCCTGAGTGTGCTGACTGCCCATTTGGTTTC 1350

G G A C D P D T G D C Y S G D E N P D I P E C A D C P I G F 450

TACAACGATCCACAAGACCCCGCAGCTGCAAGCCGTGCCCTGTGCAATGGGTTGAGTGTCTCCGTGATGCTGAGACAGAGGAGGTG 1440

Y N D P Q D P R S C K P C P C R N G F S C S V M P E T E E V 480

GTGTGCAATAACTGCCCCAGGGTGTCTGTTGCCGCTGTGAGCTCTGTGCTGATGGCTATTTTGGGACCCCTTCGGGGAACGTGGC 1530

V C N N C P Q G V T G A R C E L C A D G Y F G D P F G E R G 510

CCAGTGAGGCTTGTGACCCCTGTGAGTGAACAACAAGTGGACCTTAGTGCCCTCCGGGAACGTGTGACCGCTGACAGGAGGTGTCTG 1620

P V R P C Q P C Q C N N N V D P S A S G N C D R L T G R C L 540

AAGTGCATCCACAACAGCTGGGTCCACTGTGACCAAGTGAAGCAGGCTACTATGGGACCCGTTGGCTCCCAATCCAGCAGACAAG 1710

K C I H N T A G V H C D Q C K A G Y Y G D P L A P N P A D K 570

TGTCGAGCTTGCAACTGCAACCCAGTGGGCTCGAGCCTGTGGAGTGTGCAAGTATGGCAGCTGTGTTTGAAGCCAGGCTTTGGTGGC 1800

C R A C N C N P V G S E P V E C R S D G S C V C K P G F G G 600

FIG. 3

CTCAGCTGTGAGCATGCGGCACTGACCAGCTGTCCAGCTTGCTATAATCAAGTGAAGGTTTCAGATGGATCAGTTTATGCAGCAGCTCCAG 1890
 L S C E H A A L T S C P A C Y N Q V K V Q M D Q F M Q Q L Q 630
 ATCCTGGAGGCCCTGATTTTGAAGGCTCAGGGTGGAGCAGTACCCAACGCAGAGCTGGAAGGCAGGATGCAGCAGGCTGAGCAGGCCCTT 1980
 I L E A L I S K A Q G G A V P N A E L E G R M Q Q A E Q A L 660
 CGGACATTCTGAGAGAAGCCAGATTTTACAAGATGCTGTTAGATCCTTCAATCTCCGGGTGGCCAAGGCAAGGACTCAAGAGAATAGC 2070
 R D I L R E A Q I S Q D A V R S F N L R V A K A R T Q E N S 690
 TACCGGGACCGCCTGGATGACCTCAAGATGACTGTGAAAGAGTTCCGGGCCCTGGGCAGTCAATCAGAACCAGTTTCAGGATACTCGC 2160
 Y R D R L D D L K M T V E R V R A L G S Q Y Q N Q V Q D T R 730
 AGGCTCATCACTCAGATGCGCCTGAGCCTGGAGGAAAGTGAAGGCTTCCCTGCAAAACACCAACATTCTCTCTCAGAGCACTACGTGGGG 2250
 R L I T Q M R L S L E E S E A S L Q N T N I P P S E H Y V G 750
 CCAATGGCTTTAAAGTCTGGCTCAGGAGGCCACGAGATTGGCAGACAGCCATGTTTCAGTCAGCCAGTAACATGGAGCAACTGGCAAAG 2340
 P N G F K S L A Q E A T R L A D S H V Q S A S N M E Q L A K 780
 GAAACCCAGGAGTATTCAAAGAGCTGATGTCACTGGTGCAGGAGGCTCTGCAGGAAGGAGGCGGAAGCGGCAGCCTGGACGGAGCCGTG 2430
 E T Q E Y S K E L M S L V R E A L Q E G G G S G S L D G A V 810
 GTGCAAAGGCTTGTGGGAAATTCAGAAAATAATCTCTGGCCAGGAGTGTGAGGGAGGCCACGCAACCGACATGGAAGCAGAT 2520
 V Q R L V G K L Q K T K S L A Q E L S R E A T Q T D M E A D 840
 AGGTCTTATCAGCATAGTCTCCACCTTCTCAATTCCGTGTCTCAGATTTCAGGAGTCAATGATCAGTCTTTCAGGTAGAAGCGAAGAGG 2610
 R S Y Q H S L H L L N S V S Q I Q G V N D Q S L Q V E A K R 870
 CTCAGACAAAAGCTGATTCTCTCTCAAACCGTGTGACTAAGCATATGGATGAGTTCAAGCACGTGCAAGCAATCTGGGAACTGGGAA 2700
 L R Q K A D S L S N R V T K H M D E F K H V Q S N L G N W E 900
 GAAGAAACCCGCGAGCTCTTACAGAATGGAAGAATGGGAGACAGACATCAGATCAGCTGCTTTCCCGTGCCAACCTTGCTAAAAGCAGA 2790
 E E T R Q L L Q N G K N G R Q T S D Q L L S R A N L A K S R 930
 GCCCAAGAAGCACTAAGTATGGGCAATGCCACTTTTTATGAAGTTGAGAACATCTTAAAGAATCTCAGAGAGTTTGACCTGCAGGTGGGA 2880
 A Q E A L S M G N A T F Y E V E N I L K N L R E F D L Q V G 960
 GATAAAAGAGCAGAAGCTGAAGAGGCCATGAAGAGACTCTCTACATCAGCCAGAAGGTTGCAGGTGCCAGTGACAAGACGAAGCAAGCA 2970
 D K R A E A E E A M K R L S Y I S Q K V A G A S D K T K Q A 990
 GAAGCAGCCCTGGGCGAGTGTGTGTCGCCAGCGCCAGAGGGCAAAGAATGCAGCCAGGGAGGCCCTGGAGATCTCTGGCAAGATAGAACAG 3060
 E A A L G S A A A D A Q R A K N A A R E A L E I S G K I E Q 1020
 GAGATAGGAGGCTGAACTTGAAGCCAATGTGACAGCAGATGGAGCCTTGGCCATGGAGAAGGAGTGGCCACTCTGAAAAGTGAGATG 3150
 E I G G L N L E A N V T A D G A L A M E K G L A T L K S E M 1050
 AGAGAAGTGAAGGAGAGCTGTCAAGGAAGGAGCAGGAGTTTGACATGGATATGGACGAGTGCAGATGGTAATTGCAGAGGCCCAAAGA 3240
 R E V E G E L S R K E Q E F D M D M D A V Q M V I A E A Q R 1080
 GTTGAAAACAGAGCCAAGAATGCTGGAGTTACGATCCAAGACACACTCAACACATTGGATGGCATCTACACCTAATAGACCAGCCTGGC 3330
 V E N R A K N A G V T I Q D T L N T L D G I L H L I D Q P G 1110
 AGTGTGGATGAAGAGAGGCTGATCTTACTGGAGCAGAAGCTTTTCCGAGCCAAAGTCAAGATCAACAGCCAGTACGGCCCTTGATGTCA 3420
 S V D E E R L I L L E Q K L F R A K T Q I N S Q L R P L M S 1140
 GAGCTGGAAGAGAGGGCAGATCGGCAGAAGGGCCACCTCCGTTTCTGGAGACTAGCATAGATGGGATTCTGGCTGATGTGAAGAACCTG 3510
 E L E E R A H R Q K G H L R F L E T S I D G I L A D V K N L 1170
 GAGAATCATCAGGACAACTGCCCCGGGCTGTACAATACCCAGGCTCTTGAACAGTgaagctgccttagagatttctcaaccaag 3600
 E N I R D N L P P G C Y N T Q A L E Q Q * 1190
 gttcttgggattcagacctagctgccttagagatttctcaaccaaggttcttgggattcagacctcagggtcaggagcccccatgcggg 3690
 tggggtgggattgggaatatttgaatatgtgaatgcgtgtgctcaggccccagtgaaacctgatcccatccctgagacctcgccagataa 3780
 atgtctttattg 3789-3'

FIG. 3 cont'd

horse	1	4PALMLSCCLFCSLLPAAARATSRREVCDCHNGKSRQCI	FDQELHKTQNGFCLNCNDNTDGHCEKCHAGFYR	RERDRCLPCNCSKGSLSARCDNSG
man	1	4PALMLSCCLFCSLLPAAARATSRREVCDCHNGKSRQCI	FDQELHKTQNGFCLNCNDNTDGHCEKCHAGFYR	RERDRCLPCNCSKGSLSARCDNSG
mouse	1	4PALMLSCCLFCSLLPAAARATSRREVCDCHNGKSRQCI	FDQELHKTQNGFCLNCNDNTDGHCEKCHAGFYR	RERDRCLPCNCSKGSLSARCDNSG
horse	101	RCSCKPGVTCRCDCRCLPGFHLTDAGCAQORLDSKCD	PAGISGCDGRVCCKPAVTCGERCDRCRPGYVHL	DGNEBQGCCTQCFYCHSHASCHSE
man	101	RCSCKPGVTCRCDCRCLPGFHLTDAGCAQORLDSKCD	PAGISGCDGRVCCKPAVTCGERCDRCRPGYVHL	DGNEBQGCCTQCFYCHSHASCHSE
mouse	101	RCSCKPGVTCRCDCRCLPGFHLTDAGCAQORLDSKCD	PAGISGCDGRVCCKPAVTCGERCDRCRPGYVHL	DGNEBQGCCTQCFYCHSHASCHSE
horse	201	DYSVHKIISA	PHQDVGKAVORNGSPAKLQWSQRHDI	FSSARRSDPYFVAPAKFLNGQVSYGOSLSFDR
man	201	DYSVHKIISA	PHQDVGKAVORNGSPAKLQWSQRHDI	FSSARRSDPYFVAPAKFLNGQVSYGOSLSFDR
mouse	201	DYSVHKIISA	PHQDVGKAVORNGSPAKLQWSQRHDI	FSSARRSDPYFVAPAKFLNGQVSYGOSLSFDR
horse	301	4PLGKTLPCGKITKTYTFRNLNHPSSNWPOLSYF	FEVRRLLRLNLTALF	IRATYGEYSTGYIDNVTLISARVSGAPAPWVEQC
man	301	4PLGKTLPCGKITKTYTFRNLNHPSSNWPOLSYF	FEVRRLLRLNLTALF	IRATYGEYSTGYIDNVTLISARVSGAPAPWVEQC
mouse	301	4PLGKTLPCGKITKTYTFRNLNHPSSNWPOLSYF	FEVRRLLRLNLTALF	IRATYGEYSTGYIDNVTLISARVSGAPAPWVEQC
horse	400	YKRSARLGPFGTCLPCNCOGGGACDPTGDCYSGDEN	PDIF	ECADCPIGFYNDPQPRCKPCPCCHNGFSCSVHPETE
man	400	YKRSARLGPFGTCLPCNCOGGGACDPTGDCYSGDEN	PDIF	ECADCPIGFYNDPQPRCKPCPCCHNGFSCSVHPETE
mouse	401	YKRSARLGPFGTCLPCNCOGGGACDPTGDCYSGDEN	PDIF	ECADCPIGFYNDPQPRCKPCPCCHNGFSCSVHPETE
horse	500	3YFGDPFGEHGVRCPCQPCQCNHNDVPSASGNDR	LITGRCLKCIHITAGV	CDQKAGYVGDPLAPADKRCACNCHPVGSEPCRE
man	499	3YFGDPFGEHGVRCPCQPCQCNHNDVPSASGNDR	LITGRCLKCIHITAGV	CDQKAGYVGDPLAPADKRCACNCHPVGSEPCRE
mouse	500	3YFGDPFGEHGVRCPCQPCQCNHNDVPSASGNDR	LITGRCLKCIHITAGV	CDQKAGYVGDPLAPADKRCACNCHPVGSEPCRE
horse	600	3LSCEHAALTS	CPACVNOVKVQMDQFMOOLG	LEALISKAQGG
man	599	3LSCEHAALTS	CPACVNOVKVQMDQFMOOLG	LEALISKAQGG
mouse	600	3LSCEHAALTS	CPACVNOVKVQMDQFMOOLG	LEALISKAQGG
horse	697	DLKMTVERVRA	LGSOYQVODTRRLITQRLSLESEASLONTNII	PSSEHYVGNPKFSLAQEATRLADSHVQ
man	697	DLKMTVERVRA	LGSOYQVODTRRLITQRLSLESEASLONTNII	PSSEHYVGNPKFSLAQEATRLADSHVQ
mouse	700	DLKMTVERVRA	LGSOYQVODTRRLITQRLSLESEASLONTNII	PSSEHYVGNPKFSLAQEATRLADSHVQ
horse	797	3GGSSTJG	GAUVQRLVGLKQKTSIAQELSREATQ	DEADRSYOHSLHLLSVSOLQGVDOSTQVEAKH
man	797	3GGSSTJG	GAUVQRLVGLKQKTSIAQELSREATQ	DEADRSYOHSLHLLSVSOLQGVDOSTQVEAKH
mouse	800	3GGSSTJG	GAUVQRLVGLKQKTSIAQELSREATQ	DEADRSYOHSLHLLSVSOLQGVDOSTQVEAKH
horse	894	3NLGNWEEET	RLQNGRAN	3RQTSDDQLLSRANLAKSRAQALSHGHATFY
man	897	3NLGNWEEET	RLQNGRAN	3RQTSDDQLLSRANLAKSRAQALSHGHATFY
mouse	897	3NLGNWEEET	RLQNGRAN	3RQTSDDQLLSRANLAKSRAQALSHGHATFY
horse	994	LGSAADAQ	ARAKIAREALIS	ISSEIEIGSLHLEAVNTADGALAMEKGLATL
man	997	LGSAADAQ	ARAKIAREALIS	ISSEIEIGSLHLEAVNTADGALAMEKGLATL
mouse	997	LGSAADAQ	ARAKIAREALIS	ISSEIEIGSLHLEAVNTADGALAMEKGLATL
horse	1094	DTLNTLDGI	LHLIDQGSVDEER	LILLEQKLFRAKTOINSLRPLMSLEERARQKH
man	1097	DTLNTLDGI	LHLIDQGSVDEER	LILLEQKLFRAKTOINSLRPLMSLEERARQKH
mouse	1096	DTLNTLDGI	LHLIDQGSVDEER	LILLEQKLFRAKTOINSLRPLMSLEERARQKH

FIG. 4

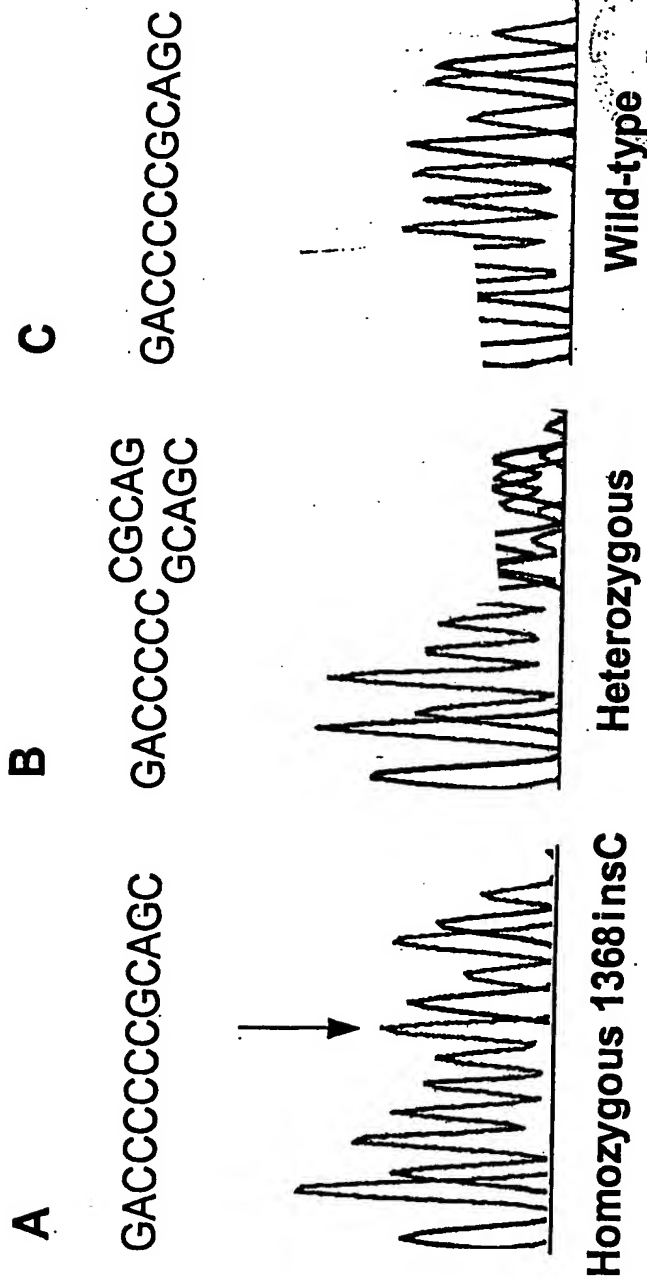


FIG. 5

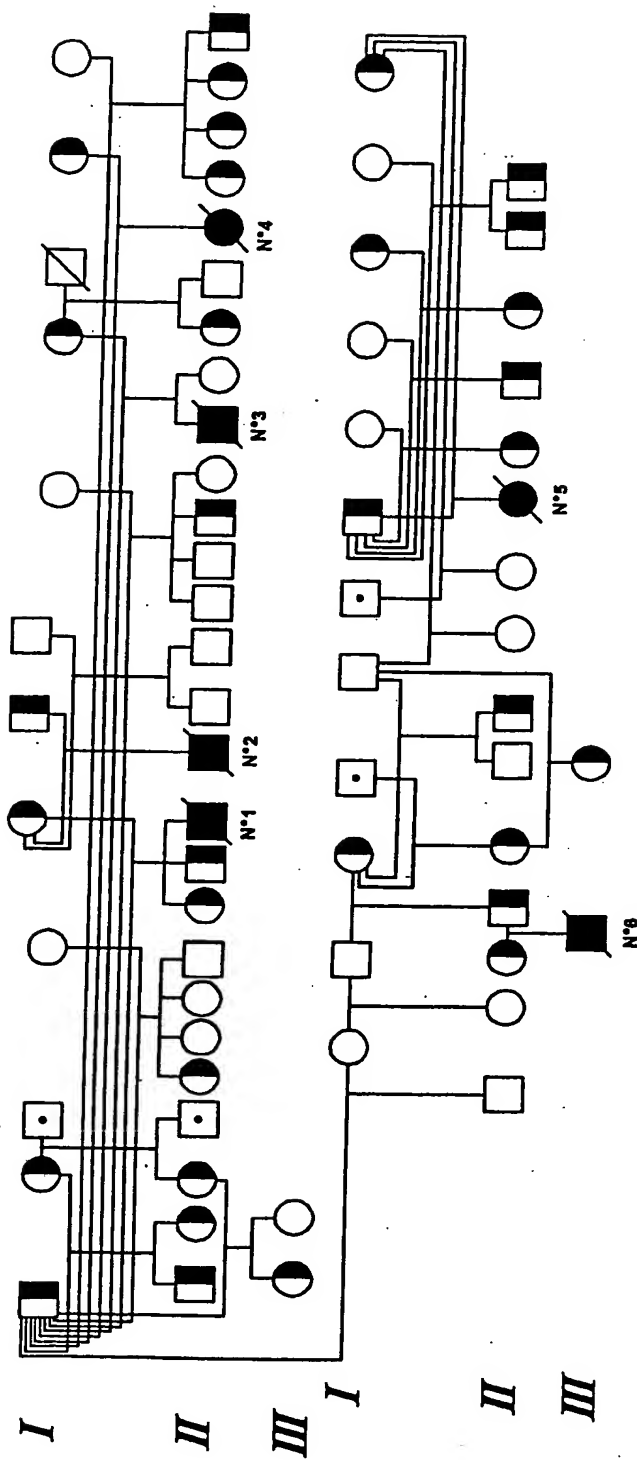


FIG. 6